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File: DWPI

Jun 23, 1998

DERWENT-ACC-NO: 1998-408443

DERWENT-WEEK: 199835

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TITLE: Spraying material used in tunnel - contains cement and powdered poly-carboxylic acid-based high-performance water reducing agent consisting of calcium salt copolymer of poly-alkylene glycol mono-alkenyl ether and maleic acid.

## PATENT-ASSIGNEE:

ASSIGNEE

CODE

DENKI KAGAKU KOGYO KK

ELED

PRIORITY-DATA: 1996JP-0336720 (December 17, 1996)

## PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 10167790 A

June 23, 1998

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C04B024/26

## APPLICATION-DATA:

PUB-NO

APPL-DATE

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DESCRIPTOR

JP 10167790A

December 17, 1996

1996JP-0336720

INT-CL (IPC): C04 B 24/26; C04 B 28/02; C08 L 29/10; C08 L 35/08; C08 L 55/00; E21 D 11/10

ABSTRACTED-PUB-NO: JP 10167790A

## BASIC-ABSTRACT:

A spraying material contains (a) cement; and (b) a powdered polycarboxylic acid-based high-performance water reducing agent consisting of the calcium salt of a copolymer of polyalkylene glycol monoalkenyl ether and maleic acid.

Also claimed is that the spraying uses the spraying material.

USE - The spraying material and the spraying are used in an exposed natural ground surface in a tunnel.

ADVANTAGE - The spraying material yields concrete, or quick setting concrete having high fluidity for a long term, strength expression, reduced dust, and reduced rebounding even if the concrete is allowed to leave kneading due to troubles in a spraying machine. The spraying material is of a powder shape. The result allows pre-mixing with cement, or various cement admixtures to improve a working property. A combination of the spraying material and a cellulose-based dust reducing agent retains a water reducing effect and a dispersion effect, depressing inhibition of strength expression.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SPRAY MATERIAL TUNNEL CONTAIN CEMENT POWDER POLY CARBOXYLIC ACID BASED HIGH PERFORMANCE WATER REDUCE AGENT CONSIST CALCIUM SALT COPOLYMER POLY ALKYLENE GLYCOL MONO ALKENYL ETHER MALEIC ACID

DERWENT-CLASS: A25 A93 L02 Q49

CPI-CODES: A08-C07; A08-D02; A10-E; A10-E08A; A10-E08B; A12-R09; L02-D12;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; H0022 H0011 ; G0599 G0588 G0022 D01 D12 D10 D51 D53 D58 F34  
D11 D95 H0204 ; R00901 G0760 G0022 D01 D12 D10 D51 D53 D59 D60 D84 F37 F35 E00 E01  
Polymer Index [1.2] 018 ; ND01 ; Q9999 Q7114\*R ; Q9999 Q7001 Q6995 ; Q9999 Q7023 Q6995  
; K9483\*R ; K9687 K9676 ; K9676\*R ; K9712 K9676 ; B9999 B4091\*R B3838 B3747 ; N9999  
N7067 N7034 N7023 ; N9999 N7147 N7034 N7023 Polymer Index [2.1] 018 ; G1558\*R D01 F47  
D11 D10 D50 D82 D83 D84 ; H0191 ; P0055 ; H0000

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-123088

Non-CPI Secondary Accession Numbers: N1998-319094